

|                                                                                                                                                                                                                                               |                                                                                                                  |          |            |        |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|----------|------------|--------|
| <div><div></div><div></div><div>FIRST QUANTUM<br/>MINERALS LTD.</div></div> | <div>MINA DE COBRE PANAMA</div> <div>DISEÑO HIDRAULICO PARA MANEJO DE</div> <div>AGUAS OVC Y BOXCUT COLINA</div> | Revisión |            | Pag.   |
|                                                                                                                                                                                                                                               |                                                                                                                  | No.      | Fecha      |        |
|                                                                                                                                                                                                                                               | <div>PROYECTO 001</div>                                                                                          | 01       | 29-03-2023 | 1 de 1 |

# DISEÑO HIDRAULICO PARA MANEJO DE AGUAS

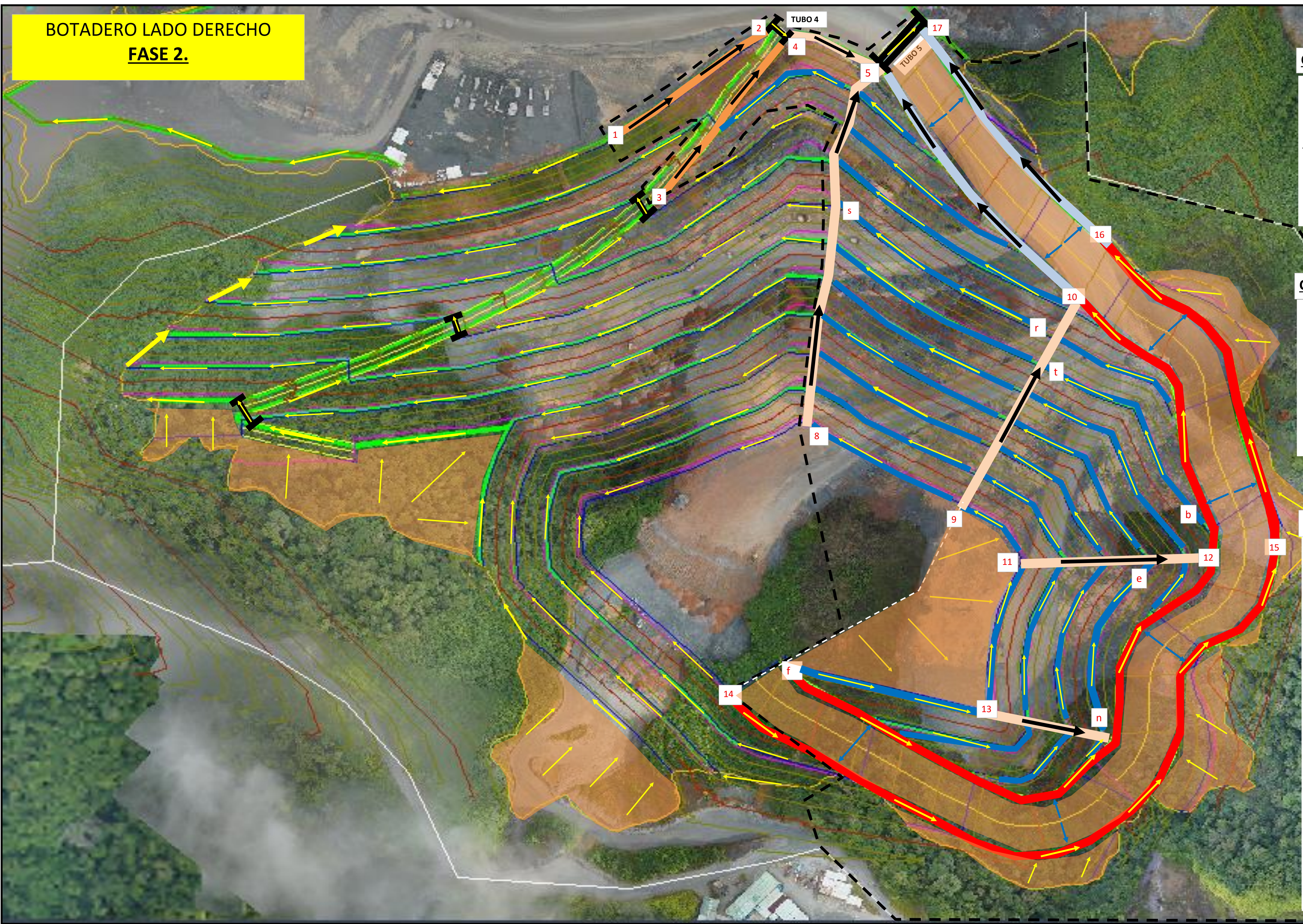
## OVC Y BOXCUT COLINA FASE 2

| Rev. | Fecha         | Preparado Por | Firma | Comentario |
|------|---------------|---------------|-------|------------|
| 01   | 29 Marzo 2023 | F. Alvendas   |       |            |
|      |               |               |       |            |
|      |               |               |       |            |
|      |               |               |       |            |
|      |               |               |       |            |

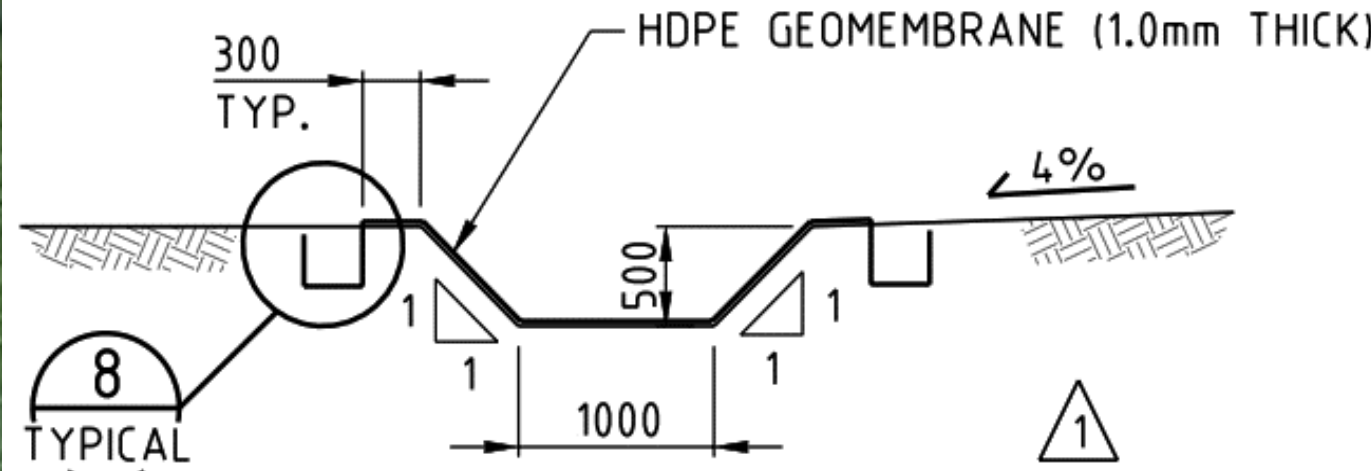
| Job Title                   | Name  | Signature | Date  |
|-----------------------------|-------|-----------|-------|
| Projects Mine Tech. Service | _____ | _____     | _____ |
| Mine Planning               | _____ | _____     | _____ |
| Geotechnical Engineer       | _____ | _____     | _____ |
| Mine Hydrogeologist         | _____ | _____     | _____ |
| Enviroment Department       | _____ | _____     | _____ |



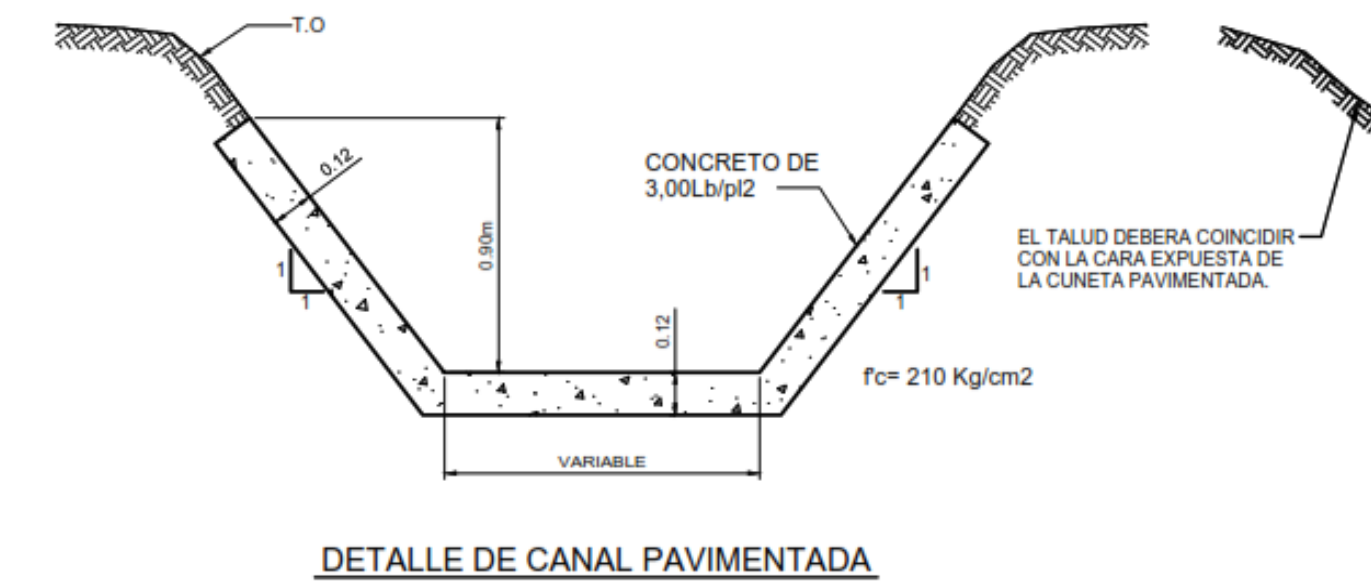
BOTADERO LADO DERECHO  
FASE 2.



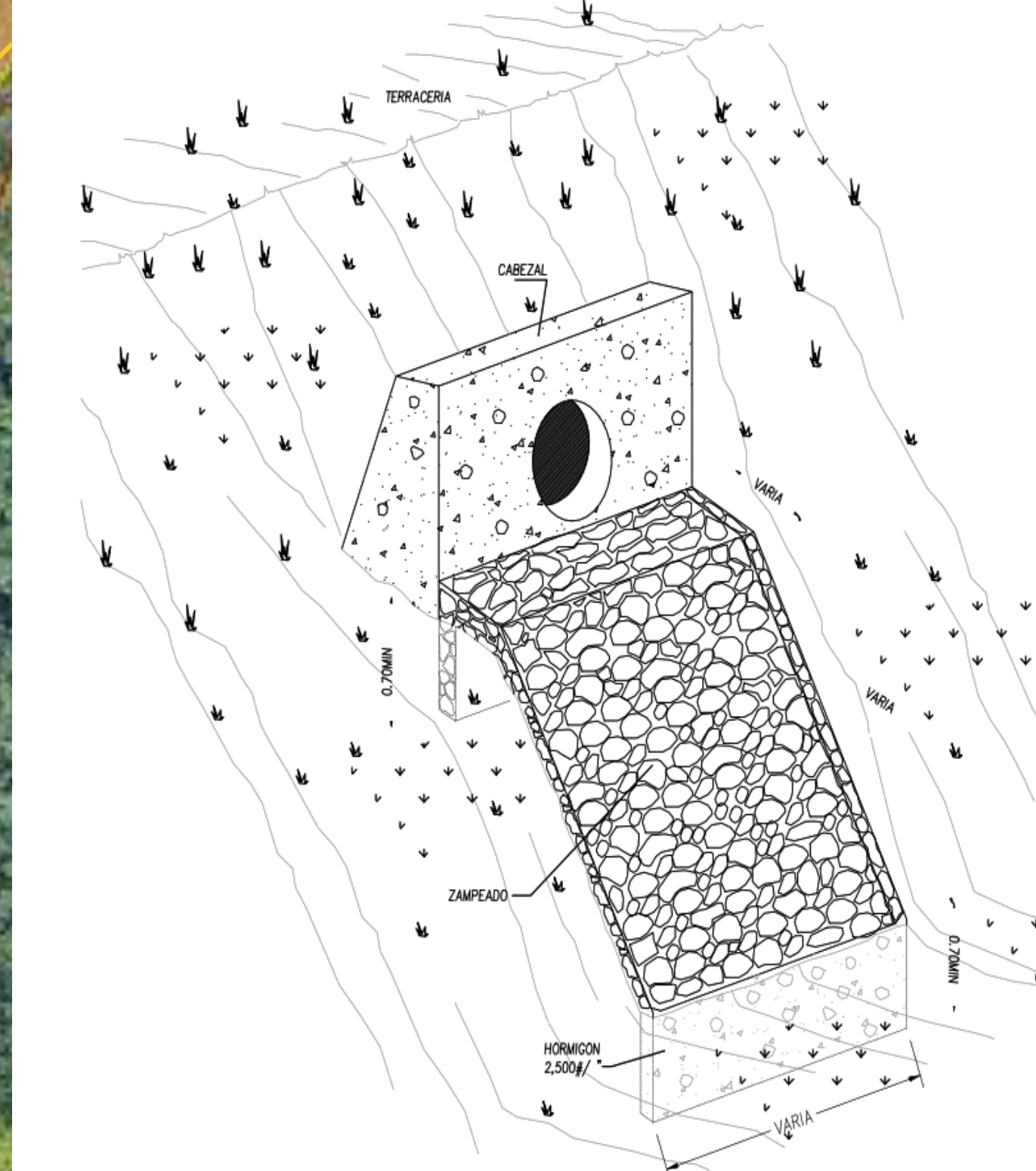
CUNETA DE HDPE (2A L)



CUNETA DE CONCRETO (2A - 2B - 2C)



CUNETA DERRAMADEROS (2A D)



TIPOS DE DRENAJE TRAPEZOIDAL

| Tipo 2A L | 1.00 m | Base. WIDTH | 0.50 m | Min. DEPTH | 1 an 1 SIDE SLOPE | HDPE Liner |
|-----------|--------|-------------|--------|------------|-------------------|------------|
| Tipo 2A   | 1.00 m | Base. WIDTH | 0.50 m | Min. DEPTH | 1 an 1 SIDE SLOPE | Concreto   |
| Tipo 2A D | 1.00 m | Base. WIDTH | 0.50 m | Min. DEPTH | 1 an 1 SIDE SLOPE | Concreto   |
| Tipo 2B   | 1.00 m | Base. WIDTH | 1.00 m | Min. DEPTH | 1 an 1 SIDE SLOPE | Concreto   |
| Tipo 2C   | 1.00 m | Base. WIDTH | 1.20 m | Min. DEPTH | 1 an 1 SIDE SLOPE | Concreto   |

TUBOS PLUVIALES

|          | Cantidad | Diametro (m) | Diametro (pulg) |
|----------|----------|--------------|-----------------|
| Tubo # 4 | 1.0      | 1.02 m       | 40 pulg         |
| Tubo # 5 | 2.0      | 1.52 m       | 60 pulg         |

